

# Tennessee

## Science and Engineering Profile

	STATE	U.S.	Rank		STATE	U.S.	Rank
Doctoral scientists, 1995	7,631	453,928	21	Total R&D performance, 1995 (millions)	\$1,402	\$177,210	26
Doctoral engineers, 1995	1,392	86,738	19	Industry R&D, 1995 (millions)	\$1,003	\$130,332	25
S&E doctorates awarded, 1996	350	27,230	24	Academic R&D, 1996 (millions)	\$317	\$22,481	25
of which, in life sciences	26%	25%		of which, in life sciences	61%	56%	
in engineering	24%	23%		in engineering	16%	16%	
in psychology	17%	13%		in physical sciences	7%	10%	
S&E postdoctorates, 1996	542	37,019	22	Higher education current-fund expenditures, 1995 (millions)	\$3,453	\$182,602	19
in doctorate-granting institutions							
S&E graduate students, 1996	6,692	430,631	21	Number of SBIR awards, 1990-1997	302	31,155	24
in doctorate-granting institutions				Patents issued to state residents, 1997	644	61,699	24
Population, 1997 (000s)	5,368	271,464	17	Gross state product, 1996 (billions)	\$140.8	\$7,677.4	19
Civilian labor force, 1997 (000s)	2,708	137,564	19	of which, agriculture	1%	2%	
Personal income per capita, 1997	\$23,018	\$25,598	34	manufacturing, mining, construction	27%	23%	
Federal spending				transportation, communication, utilities	8%	8%	
Total expenditures, 1997 (millions)	\$28,558	\$1,405,060	17	wholesale and retail trade	18%	16%	
R&D obligations, 1996 (millions)	\$558	\$66,087	25	finance, insurance, real estate	14%	19%	
				services	20%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 states, D.C., and Puerto Rico.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1996

[Thousands of Dollars]

	Total	Federal Intramural	All FFRDCs	Industrial firms	Universities & Colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	558,483	72,615	248,919	49,693	162,343	23,707	1,206	25
Department of Agriculture	8,478	5	0	0	8,473	0	0	39
Department of Commerce	1,025	723	0	5	107	190	0	37
Department of Defense	94,190	60,059	4,802	19,383	9,942	4	0	30
Department of Energy	263,406	455	240,289	16,299	6,353	10	0	7
Dept. of Health & Human Services	149,196	2,057	1,030	2,209	120,318	23,433	149	19
Department of Interior	3,509	3,115	0	0	394	0	0	37
Department of Transportation	4,305	2,441	616	119	72	0	1,057	25
Environmental Protection Agency	1,599	0	0	858	741	0	0	26
Nat'l Aeronautics & Space Admin.	20,213	2,420	2,032	10,169	5,522	70	0	23
National Science Foundation	12,562	1,340	150	651	10,421	0	0	31
<b>State rank</b>	25	28	5	35	23	17	34	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable